

U.S. Appln. No. 10/057,011  
Reply to Office Action dated May 17, 2005

PATENT  
450100-4630.1

### IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

#### Listing of Claims

1-24. (canceled)

25. (new) A recording and/or reproduction apparatus for recording and/or reproducing information onto and/or from a disc type recording medium, comprising:

a recording unit operable to record said information in recording units of respective lengths on the recording medium and management information to at least two locations of a logical volume; and

a controller operable to generate said management information including identification information indicating one of a plurality of respective types of information, the type of information including at least AV data and non-AV data, the type of information being determinative of the length of recording units used to record the information.

26. (new) A recording and/or reproduction apparatus according to claim 25, wherein the management information recorded by said recording unit includes information at least of a defective sector or sectors and an unused sector or sectors.

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27. (new) A method for recording and/or reproducing information onto and/or from a disc type recording medium, comprising the steps of:

recording said information in recording units of respective lengths on said recording medium; and

recording management information to at least two locations of a logical volume, said management information including identification information indicating one of a plurality of respective types of information, the type of information including at least AV data and non-AV data, the type of information being determinative of the length of recording units used to record the information.

28. (new) A recording medium for providing program which can be read by a computer for causing a recording and/or reproduction apparatus for recording and/or reproducing information onto and/or from a disc type recording medium to execute the steps of:

recording said data in recording units of respective length on the recording medium; and

recording management information to at least two locations of a logical volume, said management information including identification information indicating one of a plurality of respective types of information, the type of information including at least AV data and non-AV data, the type of information being determinative of the length of recording units used to record the information.